

permitted for unusual operations under Section 191.04 as an upper limit, normal operations shall be conducted in such a manner as to provide reasonable assurance that the combined annual dose equivalent to any member of the public due to: (i) operations covered by 40 CFR part 190, (ii) planned discharges of radioactive material to the general environment from operations covered by this subpart, and (iii) direct radiation from these operations; shall not exceed 25 millirems to the whole body, 75 millirems to the thyroid, or 25 millirems to any other organ.

The guidelines will be revised as necessary after the adoption of final regulations by the EPA.

The implementation of 40 CFR part 191, subpart A and 10 CFR part 20 is required by 10 CFR 60.111. 10 CFR 60.111 also specifies requirements for waste retrieval, if necessary, including considerations of design, backfilling, and schedule. 10 CFR part 20 establishes (a) exposure limits for operating personnel and (b) permissible concentrations of radionuclides in uncontrolled areas for air and water. The latter are generally less restrictive than 40 CFR 191, subpart A, but may be limiting under certain conditions (i.e., if used as a maximum for short durations rather than annual averages).

The guidelines will be revised as necessary to ensure consistency with 10 CFR part 60.

APPENDIX III TO PART 960—APPLICATION OF THE SYSTEM AND TECHNICAL GUIDELINES DURING THE SITING PROCESS

1. This appendix presents a table that specifies how the guidelines of subparts C and D are to be applied at certain decision points of the siting process. The decision points, as referenced in the table, are defined as follows:

“Potentially acceptable” means the decision point at which a site is identified as potentially acceptable.

“Nomination and recommendation” means the decision point at which a site is nominated as suitable for characterization or recommended as a candidate site for characterization.

ommended as a candidate site for characterization.

2. The findings resulting from the application of a disqualifying condition for any particular guideline at a given decision point are denoted in the table by the numeral 1 or 2. The numerals 1 and 2 signify the types of findings that are required and are defined as follows:

“1” means *either* of the following:

(a) The evidence does *not* support a finding that the site is disqualified.

or

(b) The evidence supports a finding that the site is disqualified.

“2” means *either* of the following:

(a) The evidence supports a finding that the site is *not* disqualified on the basis of that evidence and is *not* likely to be disqualified.

or

(b) The evidence supports a finding that the site is disqualified or is likely to be disqualified.

3. The findings resulting from the application of a qualifying condition for any particular guideline at a given decision point are denoted in the table by the numeral 3 or 4. The numerals 3 and 4 signify the types of findings that are required and are defined as follows:

“3” means *either* of the following:

(a) The evidence does *not* support a finding that the site is *not* likely to meet the qualifying condition.

or

(b) The evidence supports a finding that the site is *not* likely to meet the qualifying condition, and therefore the site is disqualified.

4. If performance assessments are used to substantiate any of the above findings, those assessments shall include estimates of the effects of uncertainties in data and modeling.

5. For both the disqualifying and qualifying conditions of any guideline, a higher finding (e.g., a “2” finding rather than “1”) shall be made if there is sufficient evidence to support such a finding.

FINDINGS RESULTING FROM THE APPLICATION OF THE QUALIFYING AND DISQUALIFYING CONDITIONS OF THE TECHNICAL GUIDELINES AT MAJOR SITING DECISIONS

Section 960	Guideline	Condition	Siting decision	
			Potentially acceptable	Nomination and recommendation
4-1(a)	System	Qualifying .....	.....	3
4-2-1(a)	Geohydrology .....	.....do .....	.....	3
4-2-1(d) .....	.....do	Disqualifying .....	.....	1
4-2-2(a)	Geochemistry	Qualifying .....	.....	3
4-2-3(a)	Rock Characteristics .....	.....do .....	.....	3
4-2-4(a)	Climatic Changes .....	.....do .....	.....	3
4-2-5(a)	Erosion .....	.....do .....	.....	3

FINDINGS RESULTING FROM THE APPLICATION OF THE QUALIFYING AND DISQUALIFYING CONDITIONS
OF THE TECHNICAL GUIDELINES AT MAJOR SITING DECISIONS—Continued

Section 960	Guideline	Condition	Siting decision	
			Potentially acceptable	Nomination and recommendation
4–2–5(d) .....	.....do	Disqualifying	1	1
4–2–6(a)	Dissolution	Qualifying		3
4–2–6(d) .....	.....do	Disqualifying	1	1
4–2–7(a)	Tectonics	Qualifying		3
4–2–7(d) .....	.....do	Disqualifying	1	1
4–2–8–1(a)	Natural Resources	Qualifying		3
4–2–8–1(d)(1) .....	.....do	Disqualifying	1	1
4–2–8–1(d)(2) .....	.....do .....	.....do		1
4–2–8–2(a)	Site Ownership and Control	Qualifying		3
5–1(a)(1)	System .....	.....do		3
5–1(a)(2) .....	.....do .....	.....do		3
5–1(a)(3) .....	.....do .....	.....do		3
5–2–1(a)	Population Density and Distribution .....	.....do		3
5–2–1(d)(1) .....	.....do	Disqualifying	1	1
5–2–1(d)(2) .....	.....do .....	.....do	1	1
5–2–1(d)(3) .....	.....do .....	.....do		1
5–2–2(a)	Site Ownership and Control	Qualifying		3
5–2–3(a)	Meteorology .....	.....do		3
5–2–4(a)	Offsite Installations and Operations .....	.....do		3
5–2–4(d) .....	.....do	Disqualifying	1	1
5–2–5(a)	Environmental Quality	Qualifying		3
5–2–5(d)(1) .....	.....do	Disqualifying		1
5–2–5(d)(2) .....	.....do .....	.....do	1	1
5–2–5(d)(3) .....	.....do .....	.....do	1	1
5–2–6(a)	Socioeconomic Impacts	Qualifying		3
5–2–6(d) .....	.....do	Disqualifying		1
5–2–7(a)	Transportation	Qualifying		3
5–2–8(a)	Surface Characteristics .....	.....do		3
5–2–9(a)	Rock Characteristics .....	.....do		3
5–2–9(d) .....	.....do	Disqualifying		1
5–2–10(a)	Hydrology	Qualifying		3
5–2–10(d) .....	.....do	Disqualifying		1
5–2–11(a)	Tectonics	Qualifying		3
5–2–11(d) .....	.....do	Disqualifying	1	1

[49 FR 47752, Dec. 6, 1984, as amended at 66 FR 57335, Nov. 14, 2001]

APPENDIX IV TO PART 960—TYPES OF INFORMATION FOR THE NOMINATION OF SITES AS SUITABLE FOR CHARACTERIZATION

The types of information specified below are those that the DOE expects will be included in the evidence used for evaluations and applications of the guidelines of subparts C and D at the time of nomination of a site as suitable for characterization. The types of information listed under each guideline are considered to be the most significant for the evaluation of that guideline. However, the types of information listed under any particular guideline will be used, as necessary, for the evaluation of any other guideline. As stated in § 960.3–1–4–2, the DOE will use technically conservative assumptions or extrapolations of regional data, where necessary, to supplement this information. The information specified below will be supplemented

with conceptual models, as appropriate, and analyses of uncertainties in the data.

Before site-characterization studies and related nongeologic data gathering activities, the evidence is not expected to provide precise information, but, rather, to provide a reasonable basis for assessing the merits or shortcomings of the site against the guidelines of subparts C and D. Consequently, the types of information described below should be interpreted so as to accommodate differences among sites and differences in the information acquired before detailed studies.

The specific information required for the guideline applications set forth in appendix III of this part is expected to differ from site to site because of site-specific factors, both with regard to favorable and potentially adverse conditions and with regard to the sources and reliability of the information. The types of information specified in this appendix will be used except where the findings